

## USSP2015 Program Schedule

(July 09, 2015)

### **Week 1: July 3 (Fri); Venue: NTNU (師大分部 理學院 B413 天文實習室)**

**10:30-12:00 Lecture (1)** Radio Astronomy I: Single Dish / Yi-Nan Chin (TKU)

**12:00-13:10 Lunch (lunch boxes provided)**

**13:10-13:30** Opening Remarks by Yi-Jehng Kuan (NTNU)

**13:40-15:10 Lecture (2)** The ALMA Project / Sheng-Yuan Liu (ASIAA)

**15:30-17:00 Lecture (3)** Cosmology / Protty Wu (NTU)

### **Week 2: July 10 (Fri); Venue: NTNU (師大分部 理學院 B413 天文實習室)**

**[Cancelled due to typhoon Chun-Hom]**

## CASA Workshop

### **Week 3-1: July 16 (Thu); Venue: NTNU (師大分部 理學院 B413 天文實習室)**

**09:30-11:00 Lecture (4)** Radio Astronomy II: Interferometry / Shih-Ping Lai (NTHU)

**11:10-12:30** Student progress reports (8 mins/std x 10)

**12:30-14:00 Lunch (lunch boxes provided)**

**14:00-14:50 CASA (1):** Getting started – installation, setup / Ya-Wen Yo (游雅雯)

**15:00-15:50 CASA (2):** ALMA visibility data structure – measurement sets (“ls” and “listobs”) / Ren-Shiang Sung (宋仁翔)

**16:00-16:50 CASA (3):** CASA data selection syntax – using “plotms” as an example for input parameters / Yo-Ling Chuang (莊幼玲)

### **Week 3-2: July 17 (Fri); Venue: NTNU (師大分部 理學院 B413 天文實習室)**

**09:30-10:20 CASA (4):** ALMA data inspection – “listobs” and “plotms” / Tien-Hao Hsien (謝天皓)

**10:30-11:20 CASA (5):** Synthesis Imaging – CLEAN parameters and File structure of image cubes (psf, mask, flux, residual, model, etc.) / Yo-Ling Chuang (莊幼玲)

**11:30-12:20 CASA (6):** Synthesis Imaging – UV-coverage, spectral-line cube and continuum / Ren-Shiang Sung (宋仁翔)

**12:20-13:30 Lunch (lunch boxes provided)**

**13:30-15:00 Lecture (5)** Introduction to UCAT and tuCASA / Yi-Jehng Kuan (NTNU)

**15:10-16:00 CASA (7):** Synthesis Imaging – spectral line and continuum CLEANing / Tien-Hao Hsien (謝天皓)

**16:10-17:00 CASA (8):** Imaging analysis – channel maps and integrated intensity maps / Ya-Wen Yo (游雅雯)

### **Week 4: July 24 (Fri); Venue: NCU (中大 Rm 1013 of Chien-Hsiung Building)**

**12:30-14:00** Student progress reports (9 mins/std x 10)

**14:10-15:40 Lecture (6)** Cassini: 10 Years at Saturn / Wei-Ling Tseng (NTNU)

**15:50-17:20 Lecture (7)** Stellar Evolution / Wen-Ping Chen (NCU)

### **Week 5: July 31 (Fri); Venue: NTHU (清大 物理館 620 室)**

**12:30-14:00** Student progress reports (9 mins/std x 10)

**14:10-15:40 Lecture (8)** Star Formation / Vivien Chen (NTHU)

**15:50-17:20 Lecture (9)** Magnetic Field Observations / Shih-Ping Lai (NTHU)

**Week 6: August 7 (Fri); Venue: NTNU (師大分部 理學院 B413 天文實習室)**

**12:30-14:00** Student progress reports (9 mins/std x 10)

**14:10-15:40 Lecture (10)** Interstellar Medium (ISM) / Yi-Nan Chin (TKU)

**15:50-17:20 Lecture (11)** Extragalactic Astronomy / Linwen Chen (NTNU)

**Week 7: August 14 (Fri); Venue: NTNU (師大分部 理學院 B413 天文實習室)**

**12:30-14:00** Student progress reports (9 mins/std x 10)

**14:10-15:40 Lecture (12)** Merging Galaxies / Chorng-Yuan Hwang (NCU)

**15:50-17:20 Lecture (13)** Space Weather / Wei-Ling Tseng (NTNU)

**Week 8: August 20 (Thu); Venue: NCKU (成大 綜合大樓)**

**11:30-12:30 Lunch (lunch boxes provided)**

**12:30-14:00** Student progress reports (9 mins/std x 10)

**14:10-15:40 Solar Astrophysics Lab tour** / Ya-Hui Yang (NCU/NCKU)

**15:50-17:20 Lecture (14)** Our Dynamic Sun / Ya-Hui Yang (NCU/NCKU)

**Week 9: August 28 (Fri); Venue: NTNU (師大分部 理學院 B413 天文實習室)**

**10:00-12:20** Student final presentations (1) (25+10 mins/std x 4)

**12:20-13:30 Lunch (lunch boxes provided)**

**13:30-15:15** Student final presentations (2) (25+10 mins/std x 3)

**15:30-17:15** Student final presentations (3) (25+10 mins/std x 3)